Notice of Allowability	Application No.	Applicant(s)	
	09/895,933	NELSON ET AL.	
	Examiner	Art Unit	
	James R Scott	2832	
	James IV Cook		<del></del>
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3:	S (OR REMAINS) CLOSED 5) or other appropriate comn RIGHTS. This application is	in this application. If not included nunication will be mailed in due cou	urse. <b>THIS</b>
1.   This communication is responsive to <u>amendment filed 9/</u>	/09/2003		
2. X The allowed claim(s) is/are 1-5,7-9,11,12,14 and 27-41.	<u>vo/2000</u> .		
3. The drawings filed on are accepted by the Examir	ner.		
4. Acknowledgment is made of a claim for foreign priority u		or (f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:			
<ol> <li>Certified copies of the priority documents have</li> </ol>	ve been received.		
2.   Certified copies of the priority documents have	ve been received in Applicat	on No	
3. Copies of the certified copies of the priority d	locuments have been receive	ed in this national stage application	n from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).			
(a) The translation of the foreign language provisional application has been received.			
6. $\ \ \ $ Acknowledgment is made of a claim for domestic priority	under 35 U.S.C. §§ 120 and	/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" below. Failure to timely comply will result in ABANDONMENT of the substitute of the control of the contro	of this application. THIS TH	REE-MONTH PERIOD IS NOT EX XAMINER'S AMENDMENT or NO	(TENDABLE.
<ul><li>8.  ☐ CORRECTED DRAWINGS must be submitted.</li><li>(a) ☐ including changes required by the Notice of Draftspe</li></ul>	erson's Patent Drawing Revi	ew ( PTO-948) attached	
1) ⊠ hereto or 2) ☐ to Paper No			
(b) including changes required by the proposed drawing Examiner.	correction filed 09 Septem	<u>ber 2003,</u> which has been approve	ed by the
(c) 🗵 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No			
Identifying indicia such as the application number (see 37 CFR each sheet.	1.84(c)) should be written on	the drawings in the front (not the ba	ick) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT FOR</li> </ol>	osit of BIOLOGICAL MAT THE DEPOSIT OF BIOLOG	ERIAL must be submitted. Note ICAL MATERIAL.	e the
Attachment(s)			
<ul> <li>1 ☐ Notice of References Cited (PTO-892)</li> <li>3 ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>5 ☐ Information Disclosure Statements (PTO-1449), Paper No.</li> <li>7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	4⊠ Intervie 6⊠ Examir	of Informal Patent Application (PT0 w Summary (PT0-413), Paper No her's Amendment/Comment her's Statement of Reasons for Allo	o. <u>1003</u> .

Art Unit: 2832

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

**CLAIMS** 

Claims 28-41, line 1, the numeral 13 has been cancelled and the numeral – 27 – has been inserted.

The amended dependent claims 28-41 appear below and replace the new dependent claims 28-41.

Claim 28 (once amended): The circuit layout of claim [13] <u>27</u>, further comprising an adhesive positioned between first and second membrane layers.

Claim 29 (once amended): The circuit layout of claim [13] <u>27</u>, further comprising a first adhesive positioned between first and second membrane layers and a second adhesive positioned between second and third membrane layers.

Claim 30 (once amended): The circuit layout of claim [13] <u>27</u>, wherein the first and second adhesives are selectively printed for openings on the bottom surface of the second and third membrane layers, respectively.

Claim 31 (once amended): The circuit layout of claim [13] <u>27</u>, wherein the adhesive first and second adhesives are adhesive layers positioned between first and second membrane layers and the second and third membrane layers, respectively, the adhesive layers having openings selectively cut there through.

Art Unit: 2832

Claim 32 (once amended): The circuit layout of claim [13] <u>27</u>, wherein the thruholes in the second membrane layer connect the conductive circuit trace printed on the second membrane layer with the conductive circuit trace printed on the first membrane layer.

Claim 33 (once amended): The circuit layout of claim [13] <u>27</u>, wherein the thruholes in the third membrane layer connect the conductive circuit trace printed on the third membrane layer with the conductive circuit trace printed on the first membrane layer.

Claim 34 (once amended): The circuit layout of claim [13] <u>27</u>, wherein the thru-holes in the third membrane layer and the thru-holes in the second membrane layer connect the conductive circuit trace printed on the third membrane layer with the conductive circuit trace printed on the first membrane layer.

Claim 35 (once amended): The circuit layout of claim [13] <u>27</u>, wherein conductive ink at least partially fills the thru-holes.

Claim 36 (once amended): The circuit layout of claim [13] <u>27</u>, wherein the membrane layers are electrically insulating.

Claim 37 (once amended): The circuit layout of claim [13] <u>27</u>, wherein the second membrane layer electrically insulates traces printed on its top surface from traces printed on the first membrane layer and the third membrane layer electrically insulates traces printed on its top surface from traces printed on the second membrane layer.

Claim 38 (once amended): The circuit layout of claim [13] <u>27</u>, wherein pads for receiving conductive ink are printed on the first membrane layer corresponding to the

Art Unit: 2832

location of the thru-holes in the second membrane layer and pads for receiving conductive ink are printed on the second membrane layer corresponding to the location of the thru-holes in the third membrane layer.

Claim 39 (once amended): The circuit layout of claim [13] <u>27</u>, wherein the first membrane layer is a film layer between 0.001 and 0.007 inches thick.

Claim 40 (once amended): The circuit layout of claim [13] <u>27</u>, wherein the second membrane layer is a film layer between 0.001 and 0.007 inches thick.

Claim 41 (once amended): The circuit layout of claim [13] <u>27</u>, wherein the third membrane layer is a film layer between 0.001 and 0.007 inches thick.

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## **DRAWINGS**

The following changes to the drawings must be made:

The drawings must be corrected as indicated on the attached form PTO-948. In addition provide proper reference character and lead lines in figures 1,2 and 3. The figure legends Fig. 1 and Fig. 2 should be changed to read as Fig. 1a and Fig. 2a respectively. The proposed drawing figures 1b and 2b are approved.

A copy of the form PTO-948, which was attached to the first Office Action, is enclosed per applicant's representative's request.

The original drawing figures must be corrected as stated on the attached form PTO-948, "Notice of Draftsperson's Patent Drawing Review," which was appended to the first Office Action.

Art Unit: 2832

Make appropriate correction wherever necessary in the specification pertaining to

changes made in the figures. Avoid entry of new matter.

In order to avoid abandonment of the application, applicant must make these

above agreed upon drawing changes.

REMARKS

Authorization for this examiner's amendment pertaining to amendment of the

claims 29-41 was given in a telephone interview with applicant's representative, Alicia

Mills, on Monday October 6, 2003.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to James R Scott whose telephone number is 703-308-

2013. The examiner can normally be reached on any workday between 1-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Elvin Enad can be reached on 703-308-7619. The fax phone numbers for

the organization where this application or proceeding is assigned are 703-305-3432 for

regular communications and 703-305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

1782.

JRScott: jrs

October 6, 2003

PRIMARY EXAMINER

Page 5

ART UNIT 204